

2007 GSA - Geological Society of America Annual Meeting
Earth Sciences for Society - Beginning of the International Year of Planet Earth
October 28-31, 2007
Denver, Colorado
Deadline for abstracts: July 10
<http://www.geosociety.org/meetings/2007/>

T89. Geophysics of the Terrestrial Planets: The G.K. Gilbert Award Session

Co-conveners: R. Aileen Yingst, Sean Solomon

This session, dedicated to planetary geophysics, honors Maria Zuber, the winner of the Planetary Geology Division's G.K. Gilbert Award for Outstanding Achievement. The recipient will give a keynote talk. Oral.

T90. Geology of the Northern Plains of Mars: New Tectonic, Petrologic, and Geomorphic Perspectives

Co-conveners: Joseph Michalski, Michael Wyatt

The northern plains of Mars contain an enigmatic suite of volcanic, tectonic, periglacial, sedimentary, and impact-related features. This session will explore new interpretations from recent spacecraft data and the implications for the evolution of Mars. Oral.

T91. Wet Mars: Understanding The Red Planet's Aqueous History through Terrestrial Fieldwork

Co-conveners: Brian M. Hynek, Jennifer L. Heldmann

We encourage results from terrestrial fieldwork that relate to understanding present or past water on Mars. This includes but is not limited to: (1) gully or delta formation, (2) low or high temperature acid-sulfate weathering. Oral.

T92. Up Close and Personal: Geology on Mars and Earth at the Handlens Scale

Co-conveners: R. Aileen Yingst, Juergen Schieber

Textural observations of martian rocks at the handlens-scale offer many opportunities to explore processes that formed and affected the martian crust. This session investigates handlens-scale textures on Earth and Mars diagnostic of origin and history. Oral.

T93. The First Year of Observations by the Mars Reconnaissance Orbiter

Co-conveners: Laszlo Keszthelyi, Roger Phillips

New results from the first year of Mars mapping by the HiRISE and CTX cameras, CRISM spectrometer, and SHARAD radar system onboard the MRO spacecraft will be presented. Oral.

T94. Advanced Remote Sensing of the Earth, Moon, and Mars

Co-conveners: William H. Farrand, John C. Mars

Advanced remote sensing instruments are in use on terrestrial airborne and orbital platforms and on missions in orbit or planned for the Moon and Mars. Results from these advanced remote sensing instruments will be discussed. Oral.

T95. Techniques for Studying the Development of Fields of Small Basaltic Vents on Earth and Mars

Convener: Jacob E. Bleacher

A discussion of techniques used to characterize fields of small basaltic vents on Earth and Mars to provide a broader basis for interpreting the processes responsible for the development of these volcanic features. Oral.

T101. Emerging New Methods in Early Earth Studies: Unraveling the Co-Evolution of Earth and Life

Conveners: Dorothy Oehler, Carrine Blank and Jack Farmer

This session focuses on new concepts and methodologies in the analysis of Precambrian microfossils, stromatolites, geochemical biosignatures/biomarkers, molecular phylogenetics, and interrelationships between geological processes and biochemistry to better understand how early Earth and life co-evolved.